

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

I claim:

1. (currently amended) An intrusion detection and remote alarm communication system comprising:  
an intrusion detecting sensor, said sensor being capable of detecting the entry of an intruder into a  
space, said sensor communicating with a transmitter, said sensor sending a predetermined signal to  
said transmitter when an intruder is detected, said sensor in a location proximate to said transmitter,  
a transmitter, said transmitter transmitting a signal to a receiver, said signal having a first mode and a  
second mode, said first mode being a prearranged secret sequence of different messages known as the  
first set, said first mode indicating a normal secure condition, said second mode indicating that said  
sensor has sent said predetermined signal to said transmitter that an intruder has been detected, said  
second mode being the alarm mode,  
a receiver, located at a distance from said transmitter, said receiver having means for receiving said signal  
from said transmitter, said receiver having access to a second set of said prearranged secret sequence  
of different messages identical to said first set, said receiver having means for comparing said  
received sequence with said second set and recognizing that said received sequence corresponds with  
said second set and responding by indicating a normal secure condition, said receiver recognizing that  
said said received sequence does not correspond with said second set and responding by indicating  
an alarm condition, said receiver recognizing an interruption in said signal and responding by  
indicating an alarm condition, said receiver recognizing said second mode and responding by  
indicating an alarm condition.
2. (original) An intrusion detection and remote alarm communication system, according to claim 1,  
further comprising a video camera, located in said space, connected to said transmitter and responding to  
signals from said transmitter, said video camera transmitting video images to said transmitter, said video  
images being stored in said transmitter and said video images being transmitted by said transmitter to said  
receiver.
3. (original) An intrusion detection and remote alarm communication system, according to claim 1,  
further comprising a countermeasure device, located in said space, connected to said transmitter and

responding to signals from said transmitter, said signals from said transmitter causing the countermeasure device to release materials to impede the progress of intruders entering said space.

4. (original) An intrusion detection and remote alarm communication system, according to claim 1, further comprising a container, enclosing said space, said container enclosing said sensor and said transmitter.

5. (original) An intrusion detection and remote alarm communication system, according to claim 1, further comprising a redundant sensor, thereby providing confirmation of an intrusion into said space.

6. (original) An intrusion detection and remote alarm communication system, according to claim 1, wherein said receiver transmits an electromagnetic broadcast alarm signal when indicating an alarm condition.

7. (original) An intrusion detection and remote alarm communication system, according to claim 1, wherein said receiver is capable of receiving input signals from multiple transmitters and responding by providing multiple output displays.

8. (previously presented) An intrusion detection and remote alarm communication system, according to claim 1, wherein said receiver will always indicate an alarm condition whenever said first mode signal is not received and said receiver will always indicate an alarm condition whenever a second mode signal is received.

9. (previously presented) An intrusion detection and remote alarm communication system, according to claim 1, wherein said transmitter transmitting a signal is by airborne electromagnetic broadcast.

10. (previously presented) An intrusion detection and remote alarm communication system, according to claim 1, wherein said transmitter transmitting a signal is carried on a landline.

11. (original) An intrusion detection and remote alarm communication system, according to claim 1, further comprising:  
a backup power supply unit supplying power to said transmitter when external power is interrupted,  
said transmitter recognizing when external power is interrupted and transmitting a predetermined signal to said receiver,

a backup power supply supplying power to said receiver when external power is interrupted, said receiver recognizing when external power is interrupted and broadcasting a predetermined signal.

12. (original) An intrusion detection and remote alarm communication system, according to claim 1, further comprising a second receiver at a third location, said second receiver monitoring said transmitter signals, said second receiver recognizing an interruption in said encrypted stream of information and responding by indicating an alarm condition, said second receiver recognizing said second mode and responding by indicating an alarm condition.

13. (original) An intrusion detection and remote alarm communication system, according to claim 12, wherein said first receiver broadcasts a predetermined alarm signal when said alarm signal is received from said transmitter, said second receiver receives said predetermined alarm signal from said first receiver and indicates an alarm condition.

Cancel claims 14-19.

Cancel claims 20-22.

23. (withdrawn) A method for establishing and maintaining a secure communication link for transmitting an alarm signal, comprising the steps of:

encrypting a prearranged sequence of characters,  
transmitting said encrypted prearranged sequence from a first location ,  
receiving said encrypted prearranged sequence at a second location,  
deencrypting said encrypted prearranged sequence,  
comparing deencrypted sequence received with said prearranged sequence,  
initiating an observable alarm signal if said received sequence does not match said prearranged sequence,  
initiating an observable alarm signal if said transmission of said sequence is interrupted.

24. (withdrawn) A method for establishing and maintaining a secure communication link for transmitting an alarm signal, according to claim 23, further comprising the steps of:

sensing an intrusion into a space at said first location,  
interrupting said transmission of encrypted prearranged sequence to transmit an alarm signal from said first location,  
transmitting an alarm signal from said first location,  
receiving said alarm signal at said second location,

initiating an observable alarm signal at said second location.

25. (withdrawn) A method for establishing and maintaining a secure communication link for transmitting an alarm signal, according to claim 23, wherein said prearranged sequence is taken from a stored list of characters.

26. (withdrawn) A method for establishing and maintaining a secure communication link for transmitting an alarm signal, according to claim 23, wherein said prearranged sequence is generated by a calculation based on a mathematical formula.

27. (withdrawn) A method for establishing and maintaining a secure communication link for transmitting an alarm signal, according to claim 24, further comprising the steps of:  
receiving said alarm signal from said first location at a third location,  
initiating an observable alarm signal at said third location.

28. (withdrawn) A method for establishing and maintaining a secure communication link for transmitting an alarm signal, according to claim 24, further comprising the steps of:  
broadcasting an alarm signal from said second location,  
receiving said alarm signal from said second location at a third location,  
initiating an observable alarm signal at said third location.

29. (withdrawn) A method of establishing and maintaining a secure communication link for transmitting and alarm signal, comprising the steps of:  
determining a first character set at a second location,  
encrypting said first character set at said second location,  
transmitting said encrypted first character set from said second location,  
receiving said encrypted first character set at a first location,  
deencrypting encrypted first character set to reveal first character set at said first location,  
transforming said first character set to a second character set at said first location using a  
transformation process known at said second location,  
encrypting said second character set at said first location,  
transmitting said encrypted second character set as a reply message from said first location,  
receiving said reply message at said second location,  
deencrypting said reply message at said second location to yield a third character set,  
transforming said first character set at said second location, using the same said transformation  
process used at said first location, to yield a fourth character set,

comparing said third character set to said fourth character set at said second location,  
providing a display indicating said communication link is secure if said third character set is the same  
as said fourth character set at said second location,  
providing a display indicating said communication link is not secure if said third character set is not  
the same as said fourth character set at said second location.

30. (withdrawn) A method for establishing and maintaining a secure communication link for  
transmitting an alarm signal, according to claim 29, further comprising the steps of:  
providing a display indication that said communication link is not secure if there is an unusual delay  
in receiving said reply message.

31. (withdrawn) A method for establishing and maintaining a secure communication link for  
transmitting an alarm signal, according to claim 29, further comprising the steps of:  
interrupting said reply message to transmit an alarm message,  
transmitting an alarm message from said first location,  
receiving said alarm message from said first location at said second location,  
providing a display indication of the alarm condition at said second location.

32. (withdrawn) A method for establishing and maintaining a secure communication link for  
transmitting an alarm signal, according to claim 31, further comprising the steps of:  
broadcasting a message that the communication link is not secure from said second location if the  
communication link is not secure,  
broadcasting an alarm message from said second location if an alarm message is received from said  
first location,  
receiving said alarm message from said first location at a third location and displaying an indication  
of an alarm condition,  
receiving said broadcast message that the communication link is not secure from said second location  
at a third location and displaying an indication that the communication link is not secure,  
receiving said alarm message from said second location at said third location and displaying an alarm  
message.

33. (withdrawn) A method of establishing and maintaining a secure communication link for  
transmitting and alarm signal, comprising the steps of:  
determining an original character set at a second location,

encrypting said original character set at said second location using a first set of encryption values to produce a first message,  
transmitting said first message from said second location,  
receiving said first message at a first location,  
decrypting first message using said first set of encryption values to reveal said original character set at said first location,  
encrypting said original character set at said first location using a second set of encryption values to produce a reply message,  
transmitting said reply message from said first location,  
receiving said reply message at said second location,  
decrypting said reply message at said second location using said second set of encryption values to yield a reply character set,  
comparing said reply character set to said original character set at said second location,  
providing a display at said second location indicating a secure communication link if said reply character set is the same as said original character set,  
providing a display at said second location indicating that communication link is not secure if said reply character set is not the same as said original character set.

34. (withdrawn) A method for establishing and maintaining a secure communication link for transmitting an alarm signal, according to claim 33, further comprising the steps of:  
providing a display indication that said communication link is not secure if there is an unusual delay in receiving said reply message.

35. (withdrawn) A method for establishing and maintaining a secure communication link for transmitting an alarm signal, according to claim 33, further comprising the steps of:  
interrupting said reply message to transmit an alarm message,  
transmitting an alarm message from said first location,  
receiving said alarm message from said first location at said second location,  
providing a display indication of the alarm condition at said second location.

36. (withdrawn) A method for establishing and maintaining a secure communication link for transmitting an alarm signal, according to claim 35, further comprising the steps of:  
broadcasting a message that the communication link is not secure from said second location if the communication link is not secure,  
broadcasting an alarm message from said second location if an alarm message is received from said first location,

receiving said alarm message from said first location at a third location and displaying an indication of an alarm condition,  
receiving said broadcast message that the communication link is not secure from said second location at a third location and displaying an indication that the communication link is not secure,  
receiving said alarm message from said second location at said third location and displaying an alarm message.

37. (currently amended) An intrusion detection and remote alarm communication system comprising:  
an intrusion detecting sensor, said sensor being capable of detecting the intrusion into a space in a first location, said sensor communicating with a first transmitter/receiver in said first location, said sensor sending a predetermined signal to said first transmitter/receiver when an intrusion is detected, said first transmitter/receiver in said first location communicating with a second transmitter/receiver in a second location, said communicating having a first mode and a second mode, said first mode being receiving said stimulus message from a said second transmitter/receiver, transforming said stimulus message using a secret prearranged method to yield a reply message, transmitting said reply message to said second transmitter/receiver, said first mode indicating that said space and the communication link is secure, said second mode indicating said sensor has sent said predetermined signal to said first transmitter/receiver that an intrusion has been detected, said first transmitter/receiver interrupting said first mode to transmit an alarm in said second mode, said second mode being an alarm mode,  
said second transmitter/receiver sending said stimulus message taken from a set of stimulus messages each having a correct reply message transformed from said stimulus message using said secret prearranged method, receiving said reply message from said first transmitter/receiver, comparing said reply message with said correct reply message, said second transmitter/receiver indicating a normal secure condition when said reply message is correct, said second transmitter/receiver indicating an alarm condition when said reply message is incorrect, said second transmitter/receiver indicating an alarm condition when there is no reply, said second transmitter/receiver recognizing said second mode and responding by indicating an alarm condition.

38. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, further comprising a video camera, located in said space, connected to said first transmitter/receiver and responding to signals from said first transmitter/receiver, said video camera transmitting video images to said first transmitter/receiver, said video images being stored in said first

transmitter/receiver and said video images being transmitted by said first transmitter/receiver to said second transmitter/receiver.

39. (currently amended) An intrusion detection and remote alarm communication system, according to claim 37, further comprising a countermeasure device, located in said space, connected to said first transmitter/receiver and responding to signals from said first transmitter/receiver, said signals from said first transmitter/receiver causing the countermeasure device to release materials to impede the progress of intrusion into said space.

40. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, further comprising a container, enclosing said space, said container enclosing said sensor and said first transmitter/receiver.

41. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, further comprising a redundant sensor, thereby providing confirmation of an intrusion into said space.

42. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, wherein said second transmitter/receiver transmits an electromagnetic broadcast alarm signal when indicating an alarm condition.

43. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, wherein said second transmitter/receiver is capable of receiving input signals from multiple first transmitter/receivers and responding by providing multiple output displays.

44. (previously presented)) An intrusion detection and remote alarm communication system, according to claim 37, wherein said second transmitter/receiver will always indicate an alarm condition whenever said correct reply message is not received and said second transmitter/receiver will always indicate an alarm condition whenever an alarm signal is received.

45. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, wherein said communicating by said first transmitter/receiver is by airborne electromagnetic broadcast.



46. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, wherein said communicating by said first transmitter/receiver is carried on a landline.

47. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, further comprising a backup power supply unit supplying power to said first transmitter/receiver when external power is interrupted, said first transmitter/receiver recognizing when external power is interrupted and transmitting a predetermined signal to said second transmitter/receiver,

48. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, further comprising a third transmitter/receiver, said third transmitter/receiver monitoring said communicating signals, said third transmitter/receiver recognizing an interruption in said encrypted stream of information and responding by broadcasting an alarm, said third transmitter/receiver recognizing said second mode and responding by broadcasting an alarm condition.

49. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, wherein said communicating in said first mode is said second transmitter/receiver transmitting an encrypted stimulus message to said first transmitter/receiver, said first transmitter/receiver responding with an encrypted prearranged secret reply message to said second transmitter/receiver, comparing said reply message to said prearranged secret correct reply message at said second location, indicating an alarm when a correct reply message is not received at said second location.

50. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, wherein said prearranged pattern of communicating in the first mode is said second transmitter/receiver sending an encrypted stimulus message to said first transmitter/receiver, said first transmitter/receiver responding with an encrypted reply message that is a prearranged secret transformation of said stimulus message to said second transmitter/receiver, comparing said reply message to the prearranged correct response at said second location, indicating an alarm when a correct reply message is not received at said second location.

51. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, wherein said prearranged pattern of communicating in the first mode is said second transmitter/receiver sending a stimulus message to said first transmitter/receiver encrypted using a prearranged first set of encryption values, said first transmitter/receiver responding with a reply message encrypted using a prearranged second set of encryption values to said second transmitter/receiver,

comparing de-encrypted said reply message to the prearranged correct response at said second location, indicating an alarm when a correct reply message is not received at said second location.

52. (previously presented) An intrusion detection and remote alarm communication system, according to claim 37, wherein said prearranged pattern of communicating in the first mode is said second transmitter/receiver sending an encrypted stimulus message made of two parts, a first part and a second part, said first part providing instructions for the transformation of said second part by said first transmitter/receiver to said first transmitter/receiver, said first transmitter/receiver responding with an reply message that is an encryption of said instructed transformation of said second part of said stimulus message to said second transmitter/receiver, comparing said encrypted reply message to the prearranged correct response at said second location, indicating an alarm when a correct reply message is not received at said second location.

53. (previously presented) An intrusion detection and remote alarm communication system, according to claim 1, wherein said signal transmitted by said transmitter in said first mode is encrypted and said receiver de-encrypts said signal prior to said comparing.